

CLAIMS

1. A monoclonal antibody belonging to human IgM for specifically recognizing HIV-infected cells to induce
5 apoptosis to the infected cells.

2. A remedy for HIV-infection diseases comprising a human IgM antibody as an effective ingredient, the antibody specifically recognizing HIV-infected cells and inducing
10 apoptosis to the HIV-infected cells.

3. A remedy according to Claim 2 for preventing onset of AIDS.

15 4. The human IgM monoclonal antibody according to any one of Claims 1 to 3, wherein the human IgM monoclonal antibody that reacts with the HIV-infected cells is 2G9 antibody comprising a base sequence of the H-chain variable region represented by sequence No. 1.

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5. The human IgM monoclonal antibody according to any one of Claims 1 to 4, wherein the human IgM monoclonal antibody that reacts with the HIV-infected cells is 2G9 antibody comprising a base sequence of the L-chain variable
25 region represented by sequence No. 2.

6. A 2G9 antibody-producing cell strain with an
accession No. FERM BP-8378 belonging to human IgM
specifically recognizing HIV-infected cells to induce
5 apoptosis to the infected cells.

7. The monoclonal antibody according to any one of
Claims 1 to 5 produced by the cell strain with an accession
No. FERM BP-8378.